BRUHAT BANGALORE MAHANAGARA PALIKE
SCHEDULE-B

Name of Work: Improvements to Roads and drains of Sahakaranagar Main Road and surrounding areas in ward no. 08 Kodigehalli

Major Works Committee BBMP, meeting subject no 12/2019-20 Dated 07.09.201(Sl no 118)

Issued To : Executive Engineer-4/
Karnataka Rural Infrastructure Development Limited (KRIDL)
BBMP Division, Sri Shivakumar Swamy Nilaya,
No. 280, 59th cross, 17th C Main Road,
3rd Y Block, Rajajinagar,
Bangalore.

Item no	Qty	Unit	Description	Approved Unit Rate in Rs	
				In Figures	In words
1	1240.32	Sqm	Removing and refixing stone slabs of drains and pointing in CM (1:3) with all lead and lift and as per the direction of Engineer in charge	111.30	Rupees One Hundred Eleven Paise Thirty Only
2	243.20	Cum	KSRRB 300-1 Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all lead and lift and as per the direction of Engineer in charge	214.50	Rupees Two Hundred Fourteen Paise Fifty Only
3	218.88	Sqm	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. with all lead and lift and as per the direction of Engineer in charge	742.00	Rupees Seven Hundred FourtyTwo Only

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Item no	Qty	Unit	Description	Approved Unit Rate in Rs	
				In Figures	In words
4	35.40	Cum	KSRRB M2100-10 Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. with all lead and lift and as per the direction of Engineer in charge	5421.90	Rupees Five Thousand Four Hundred TwentyOne Paise Ninety Only
5	104.43	Cum	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200 including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm with all lead and lift and as per the direction of Engineer in charge	7070.20	Rupees Seven Thousand Seventy Paise Twenty Only
6	5.22	Tn	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification with all lead and lift and as per the direction of Engineer in charge	72326.98	Rupees SeventyTwo Thousand Three Hundred TwentySix Paise NinetyEight Only
7	318.60	Sqm	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge with all lead and lift and as per the direction of Engineer in charge	3640.00	Rupees Three Thousand Six Hundred Fourty Only

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				Approved Unit Rate in Rs	
Item no	Qty	Unit	Description	In Figures	In words
8	60.00	m	Providing and laying 100mm thick pre-cast cover slabs over drains of width not exceeding 800 mm using M20 concrete reinforced with steel @ 6.00 kg/Sqm. slabs jointed in CM 1:3 proportion and nicely finished including providing holes in the Cover slabs wherever necessary for easy drainage of surface water including of labour, materials, HOM of machineries, curing, lead and lift charges etc with all lead and lift and as per the direction of Engineer in charge	1145.86	Rupees One Thousand One Hundred FourtyFive Paise EightySix Only
9	183.60	Cum	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 6.00 km and complete as per specifications with all lead and lift and as per the direction of Engineer in charge	57.02	Rupees FiftySeven Paise Three Only
10	717.60	Sqm	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge	41.34	Rupees FourtyOne Paise ThirtyFour Only
11	171.90	Cum	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC,spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications with all lead and lift and as per the direction of Engineer in charge	1855.00	Rupees One Thousand Eight Hundred FiftyFive Only
12	455.28	Cum	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications with all lead and lift and as per the direction of Engineer in charge	2001.28	Rupees Two Thousand One Paise TwentyEight Only

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Item no	Qty	Unit	Description	Approved Unit Rate in Rs	
				In Figures	In words
13	2387.60	Sqm	KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications with all lead and lift and as per the direction of Engineer in charge	29.68	Rupees TwentyNine Paise SixtyEight Only
14	6062.00	Sqm	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge	5.30	Rupees Five Paise Thirty Only
15	8864.60	Sqm	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications with all lead and lift and as per the direction of Engineer in charge	12.72	Rupees Twelve Paise SeventyTwo Only
16	154.33	Cum	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen with all lead and lift and as per the direction of Engineer in charge	6858.20	Rupees Six Thousand Eight Hundred FiftyEight Paise Twenty Only

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EXECUTIVE ENGINEER (RI-Yelahanka)

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Item no	Qty	Unit	Description	Approved Unit Rate in Rs	
				In Figures	In words
17	343.26	Cum	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53 2015 using do using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) with all lead and lift and as per the direction of Engineer in charge	8049.65	Rupees Eight Thousand FourtyNine Paise SixtyFour Only
18	280.70	Sqm	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications with all lead and lift and as per the direction of Engineer in charge	454.74	Rupees Four Hundred FiftyFour Paise SeventyFour Only
19	330.00	Nos	KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation with all lead and lift and as per the direction of Engineer in charge	357.22	Rupees Three Hundred FiftySeven Paise TwentyTwo Only

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